



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090059-B

Mode: Highway

Status: Submitted

NC-16

From/Cross Street: US 421

Specific Improvement Type: 16 - Modernize Roadway

To: Ashe County Line

Project Category: Regional Impact

Length: 15.89

TIP#: R-2207B

Fully Funded in Draft STIP? No

Cost to NCDOT: \$31,350,000

Description:

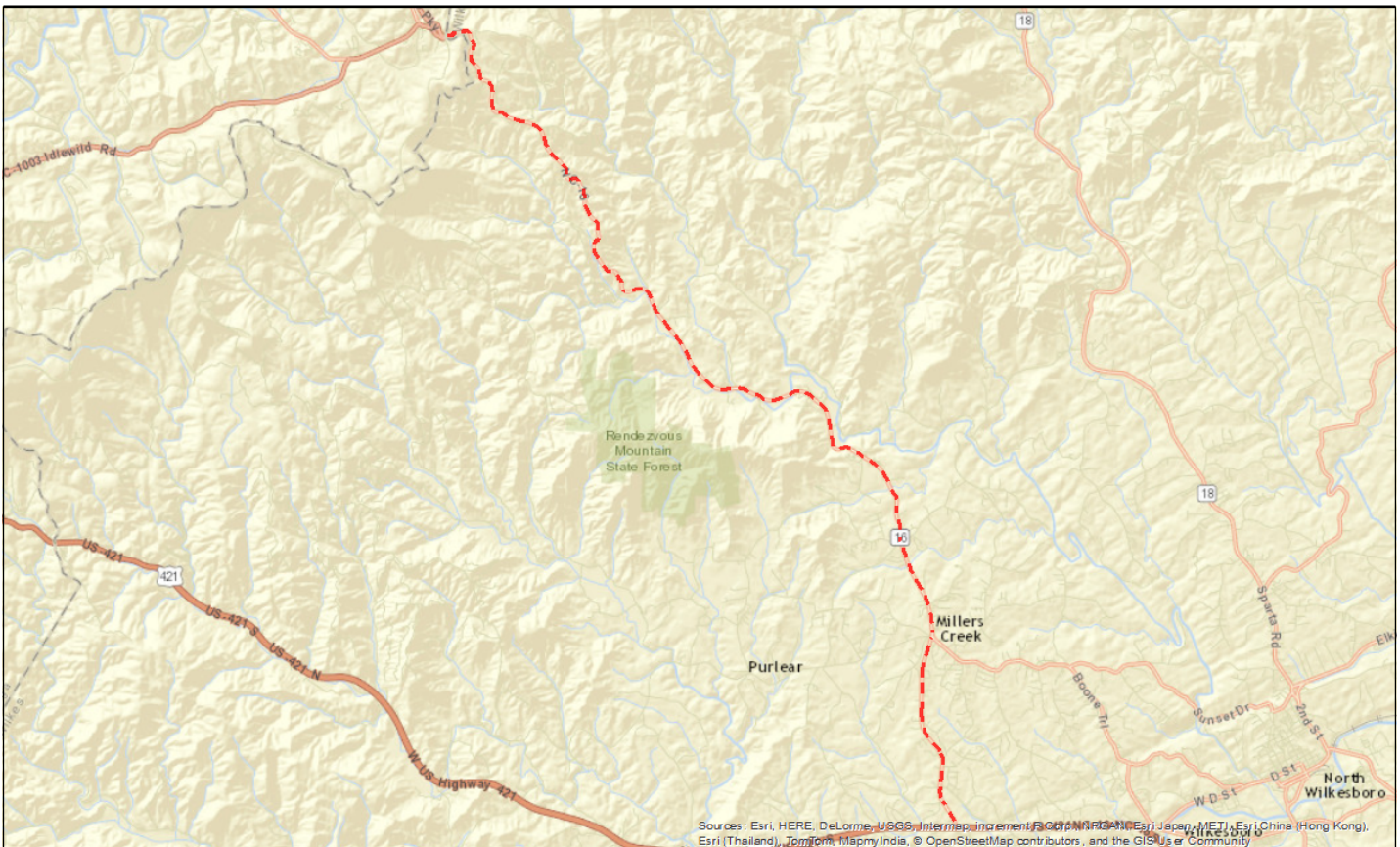
US 421 to Ashe County Line. Upgrade Two Lanes and Add Climbing Lanes. Section B: US 421 to SR 1617 (Indian Hill Road) and North of SR 1431 (Camden Drive) to Ashe County Line.

Division(s): Division 11

County(s): WILKES

MPOS(s)/RPO(s): High Country RPO

Project Location



Statewide Mobility Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Totals: Weight: 0% Weighted Score: 0	N/A	N/A

Regional Impact Total Score: 29.06

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Accessibility / Connectivity (10%) 19.94	Percent: 15%	Percent: 15%
Safety (10%) 57.46	Points: 0	Points: 100
[Travel Time] Benefit/Cost (25%) 0.00		
Congestion (V/C) (25%) 25.27		
Totals: Weight: 70% Weighted Score: 14.06		

Division Needs Total Score: 35.8

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
[Travel Time] Benefit/Cost (20%) 0.00	Percent: 25%	Percent: 25%
Congestion (V/C) (20%) 25.27	Points: 0	Points: 100
Safety (10%) 57.46		
Totals: Weight: 50% Weighted Score: 10.8		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	53
Length (miles):	15.89
Facility Type:	Two Lane Highway
Access Control:	None
Functional Classification:	Minor Arterial
Terrain Type:	Mountainous
Lane Width:	10
Paved Shoulder Width:	1
Roadway has Curb & Gutter?	No
Volume (AADT):	5935.96
Capacity:	15555.68
Volume/Capacity Ratio:	0.38
% Autos:	91%
% Trucks:	9%
Truck Volume:	553.72
Crash Density:	66.84
Crash Severity:	51.22
Critical Crash Rate:	54.33
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	1
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	27
Existing Median Type (for Cost Estimation):	Undivided
Pavement Condition Rating:	88
Actual Congested Speed:	45.61
Travel Time Index:	1.17

Project Benefits

Project Cross-Section:	
Speed Limit:	53
Length (miles):	15.89
Facility Type:	Two Lane Highway
Access Control:	None
Functional Classification:	Minor Arterial
TerrainType:	Mountainous
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	2
Travel Time Savings for 30 Years (Total):	0
Travel Time Savings for 30 Years (Autos):	0
Travel Time Savings for 30 Years (Trucks):	0
Long-Term Employment:	
% Change in Economy:	
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	No
In CTP or LRTP?	
CTP/LRTP Name:	
CTP/LRTP Completion Year:	
Submitted by:	Division 11

* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT On!ine tool and associated databases.

Project Ownership**Division**

Division	Percent	Regional Impact	Division Needs
Division 11	100%	0	0
	0%	0	0
	0%	0	0
TOTAL Division Points		0	0

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
High Country RPO	100%	100	100
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		100	100

Project Cost and Source

Construction Cost:	\$31,350,000	TIP Unit
Right-of-Way Cost:	\$0	Cost Estimation Tool
Utilities Cost:	\$0	Cost Estimation Tool
Total Project Cost:	\$31,350,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$31,350,000	